

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643223

Luminaire Tested: GWS-SA6E-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-740-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39397.4 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

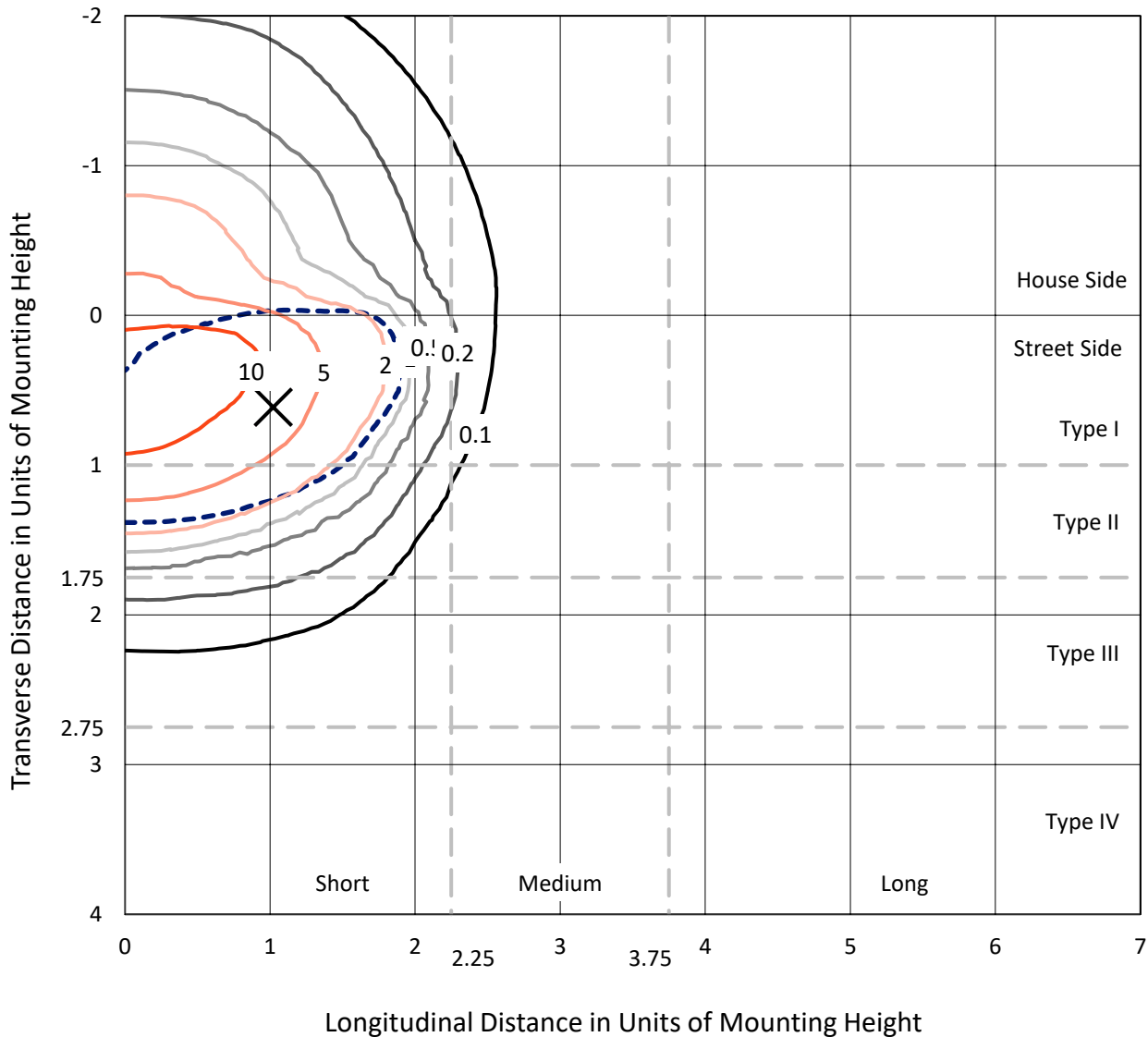


REPORT NUMBER: P643223

CATALOG NUMBER: GWS-SA6E-740-U-T2R-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

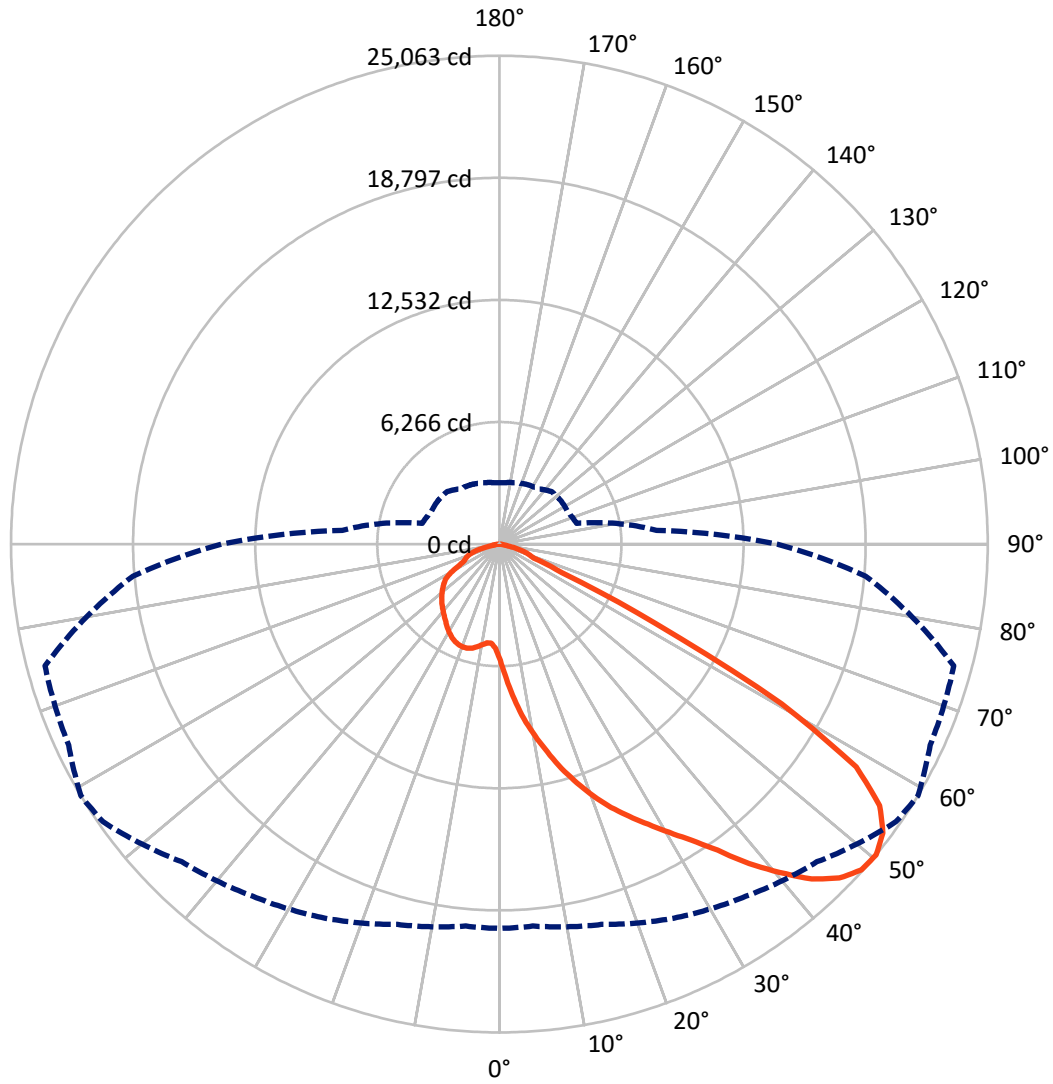
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P643223  
CATALOG NUMBER: GWS-SA6E-740-U-T2R-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P643223

CATALOG NUMBER: GWS-SA6E-740-U-T2R-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9062.1	0.0	9062.1
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	30335.2	0.0	30335.2
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	39397.4	0.0	39397.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	669.6	1.7
10°-20°	2430.8	6.2
20°-30°	4603.0	11.7
30°-40°	7633.2	19.4
40°-50°	10427.4	26.5
50°-60°	9465.4	24.0
60°-70°	3152.1	8.0
70°-80°	919.3	2.3
80°-90°	96.6	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39397.4	100.0
0°-180°	39397.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P643223

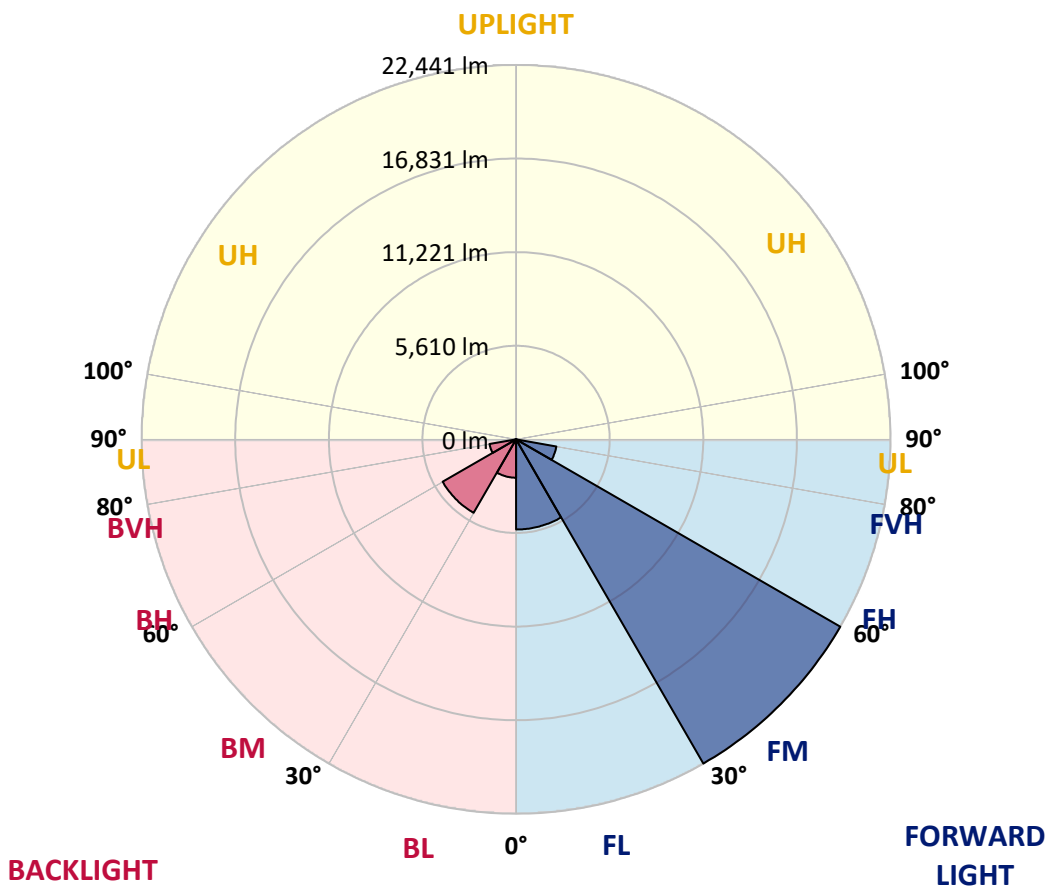
CATALOG NUMBER: GWS-SA6E-740-U-T2R-W-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5402.3	13.7			
FM (30°-60°)	22441.2	57.0			
FH (60°-80°)	2453.9	6.2			G2/5000
FVH (80°-90°)	37.8	0.1			G1/100
BL (0°-30°)	2301.1	5.8	B3/2500		
BM (30°-60°)	5084.7	12.9	B4/8500		
BH (60°-80°)	1617.5	4.1	B3/2500		G3/2500
BVH (80°-90°)	58.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





REPORT NUMBER: P643223

CATALOG NUMBER: GWS-SA6E-740-U-T2R-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0
2.5°	7734.0	7791.8	7701.9	7708.3	7483.7	7381.0	7092.2	6922.1	6809.8	6495.3	6209.7
5°	9293.6	9226.3	9155.7	9113.9	8918.2	8642.2	8282.8	7997.2	7734.0	7117.9	6524.2
7.5°	10250.0	10214.7	10166.5	10140.9	9948.3	9659.5	9300.1	9056.2	8674.3	7839.9	6906.1
10°	11061.9	11020.2	10991.3	11010.5	10853.3	10667.2	10275.6	9996.4	9566.4	8603.7	7368.2
12.5°	11690.9	11713.3	11723.0	11825.6	11758.3	11645.9	11241.6	10946.3	10468.2	9409.2	7910.5
15°	12188.3	12181.9	12294.2	12489.9	12599.1	12528.4	12204.3	11957.2	11373.2	10201.8	8494.6
17.5°	12303.8	12310.2	12486.7	12830.1	13186.3	13359.6	13176.7	12881.5	12303.8	10984.9	9101.1
20°	12396.9	12409.7	12592.6	12984.1	13504.0	13988.6	14017.5	13805.7	13308.3	11832.1	9717.3
22.5°	12984.1	13013.0	13061.2	13308.3	13776.8	14389.7	14726.7	14681.8	14264.6	12721.0	10381.5
25°	14527.7	14441.1	14206.8	14136.2	14315.9	14813.4	15387.8	15474.4	15269.0	13699.8	11097.2
27.5°	16434.0	16340.9	15994.3	15628.5	15240.2	15413.5	16026.4	16286.3	16289.6	14778.1	11816.0
30°	18163.7	18089.9	17807.5	17284.4	16613.7	16363.4	16815.8	17165.6	17374.2	16023.2	12634.4
32.5°	19643.1	19575.7	19193.8	18767.0	18112.3	17608.5	17772.2	18109.1	18596.9	17634.2	13651.6
35°	20888.2	20820.8	20455.0	20025.0	19418.5	19116.8	19059.0	19290.1	19922.3	19315.8	14819.8
37.5°	21899.1	21831.7	21449.8	21045.5	20583.4	20602.6	20689.3	20801.6	21164.2	21116.1	16068.1
40°	22553.8	22483.2	22210.4	21921.6	21629.5	21860.6	22290.6	22155.8	22348.4	22569.8	17217.0
42.5°	22845.8	22756.0	22598.7	22534.5	22444.7	22804.1	23632.0	23497.3	23266.2	23539.0	18070.6
45°	22553.8	22476.8	22473.5	22669.3	22877.9	23340.0	24559.5	24450.4	23866.3	24007.5	18580.9
47.5°	21658.4	21591.0	21774.0	22287.4	22800.9	23474.8	24973.5	24992.7	24293.1	24203.3	18911.4
50°	19723.3	19678.4	20207.9	21180.3	22066.0	23054.4	24841.9	25063.3	24395.8	24142.3	18869.7
52.5°	15788.9	15997.5	17149.6	18773.4	20493.5	22316.3	24354.1	24642.9	23901.6	23741.2	18645.1
55°	10808.4	10904.6	12056.7	14428.3	17156.0	20718.2	23234.1	23680.2	23317.5	23673.8	18879.3
57.5°	5596.7	5673.7	6581.9	8687.1	11636.3	16373.0	20124.5	21587.8	22139.8	24013.9	19607.8
60°	2297.7	2361.9	2737.4	3754.7	5869.5	9534.3	14482.8	16652.2	17948.7	21931.2	17412.7
62.5°	1668.7	1700.8	1880.6	2240.0	3074.3	4672.5	8196.1	8995.2	9906.6	13744.7	11055.5
65°	1405.6	1440.9	1585.3	1803.5	2243.2	2865.8	3501.2	3520.4	3879.8	5599.9	4098.1
67.5°	1177.8	1209.8	1338.2	1524.3	1813.2	2034.6	1880.6	1883.8	1877.3	2031.4	1964.0
70°	917.8	943.5	1071.8	1270.8	1421.6	1306.1	1469.8	1627.0	1559.6	1620.6	1713.7
72.5°	670.7	699.6	811.9	962.7	924.2	930.6	1190.6	1351.0	1312.5	1379.9	1466.6
75°	484.6	503.8	561.6	481.4	507.0	612.9	837.6	924.2	962.7	1020.5	1097.5
77.5°	157.2	157.2	176.5	221.4	276.0	340.2	426.8	462.1	519.9	584.1	638.6
80°	80.2	83.4	99.5	121.9	154.0	195.8	250.3	266.4	295.2	330.5	353.0
82.5°	38.5	41.7	48.1	61.0	80.2	102.7	138.0	154.0	173.3	195.8	211.8
85°	9.6	9.6	12.8	19.3	25.7	38.5	51.3	61.0	77.0	93.1	102.7
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	9.6	12.8	16.0	19.3	25.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643223

CATALOG NUMBER: GWS-SA6E-740-U-T2R-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0	5969.0
2.5°	6081.3	5901.6	5670.5	5474.8	5295.1	5157.1	5038.3	4980.6	4926.0	4887.5	4900.3
5°	6248.2	5940.1	5510.1	5211.6	5028.7	4935.6	4871.5	4839.4	4833.0	4807.3	4797.7
7.5°	6492.1	6052.4	5478.0	5176.3	5054.4	5006.2	4970.9	4951.7	4961.3	4935.6	4926.0
10°	6793.7	6238.6	5558.2	5291.9	5186.0	5150.7	5112.1	5086.5	5073.6	5035.1	5028.7
12.5°	7169.2	6469.6	5702.6	5439.5	5333.6	5272.6	5221.3	5176.3	5147.4	5099.3	5086.5
15°	7573.6	6726.3	5872.7	5583.9	5458.7	5368.9	5285.4	5218.0	5166.7	5102.5	5092.9
17.5°	8013.2	6995.9	6013.9	5683.4	5522.9	5404.2	5282.2	5182.7	5112.1	5028.7	5019.1
20°	8472.1	7268.7	6119.8	5731.5	5526.1	5365.7	5202.0	5070.4	4980.6	4897.1	4890.7
22.5°	8947.1	7519.0	6184.0	5718.7	5474.8	5275.8	5080.1	4932.4	4826.5	4727.1	4720.6
25°	9425.2	7759.7	6200.0	5667.3	5372.1	5141.0	4945.3	4772.0	4653.2	4540.9	4528.1
27.5°	9909.8	7961.9	6161.5	5564.6	5234.1	4983.8	4788.0	4617.9	4496.0	4383.7	4364.4
30°	10426.5	8135.1	6078.1	5429.9	5073.6	4816.9	4624.4	4496.0	4380.5	4268.1	4248.9
32.5°	10978.4	8286.0	5959.4	5266.2	4887.5	4650.0	4508.8	4393.3	4277.8	4178.3	4159.0
35°	11636.3	8385.5	5782.9	5054.4	4714.2	4528.1	4431.8	4297.0	4155.8	4046.7	4037.1
37.5°	12316.6	8462.5	5571.1	4852.2	4563.4	4457.5	4377.3	4194.3	4017.8	3886.3	3870.2
40°	12974.5	8526.7	5307.9	4662.9	4425.4	4406.1	4297.0	4069.2	3764.3	3616.7	3603.9
42.5°	13587.5	8545.9	5031.9	4460.7	4300.2	4290.6	4168.7	3815.7	3581.4	3488.3	3475.5
45°	14007.9	8529.9	4746.3	4271.4	4175.1	4123.7	3995.4	3632.7	3488.3	3404.9	3388.8
47.5°	14319.1	8446.4	4425.4	4072.4	4033.9	3963.3	3687.3	3517.2	3382.4	3299.0	3282.9
50°	14264.6	8099.8	4101.3	3879.8	3863.8	3802.8	3462.7	3372.8	3254.1	3164.2	3151.4
52.5°	13982.2	7442.0	3770.7	3668.0	3700.1	3581.4	3302.2	3199.5	3096.8	2994.1	2971.7
55°	14052.8	6967.0	3520.4	3462.7	3520.4	3250.9	3122.5	3013.4	2917.1	2817.6	2798.4
57.5°	14360.9	6498.5	3254.1	3241.2	3302.2	2997.3	2891.4	2753.4	2615.4	2535.2	2535.2
60°	12059.9	4736.7	2785.5	2817.6	2955.6	2791.9	2698.9	2557.7	2406.8	2336.2	2336.2
62.5°	7130.7	2971.7	2310.6	2275.3	2361.9	2464.6	2516.0	2400.4	2220.7	2127.7	2130.9
65°	3141.7	2163.0	2037.8	2008.9	1983.2	2053.8	2195.0	2204.7	2015.3	1906.2	1909.4
67.5°	1935.1	1957.6	1906.2	1883.8	1861.3	1848.5	1835.6	1842.0	1790.7	1691.2	1688.0
70°	1745.8	1806.7	1771.4	1752.2	1723.3	1700.8	1623.8	1498.7	1412.0	1386.3	1415.2
72.5°	1501.9	1585.3	1566.1	1556.4	1521.1	1466.6	1363.9	1241.9	1139.2	1075.1	1087.9
75°	1132.8	1200.2	1209.8	1213.1	1174.5	1123.2	1017.3	914.6	824.7	757.4	773.4
77.5°	651.5	690.0	699.6	709.2	680.3	661.1	590.5	516.7	468.5	397.9	417.2
80°	362.6	378.7	378.7	381.9	365.8	343.4	295.2	253.5	231.1	199.0	202.2
82.5°	218.2	224.6	227.8	231.1	221.4	199.0	163.7	134.8	121.9	105.9	102.7
85°	105.9	112.3	112.3	115.5	99.5	86.6	67.4	51.3	44.9	32.1	35.3
87.5°	25.7	28.9	28.9	25.7	22.5	16.0	9.6	3.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)